

Appl. No. : 10/687,523  
Filed : October 15, 2003

## AMENDMENTS TO THE CLAIMS

### 1.-11. Cancelled

12. (Currently amended) A method for identifying substances modulating ~~activity of reabsorption of sodium chloride or Cl<sup>-</sup> transport by a polypeptide derived from chloride channel Kb (ClCKb) protein~~ wherein said protein is genetically altered at amino acid position 481 compared to wild type (SEQ ID NO: 1), comprising the steps of:

(a) contacting said ~~polypeptide protein~~ with a test substance, under conditions allowing the binding of said test substance to said ~~polypeptide protein~~, and

(b) determining, whether said test substance modulates ~~reabsorption of sodium chloride or Cl<sup>-</sup> transport by the activity of said polypeptide protein~~,

~~wherein said polypeptide comprises said amino acid as position 481 of the ClCKb protein.~~

13. (Original) The method according to Claim 12, wherein said genetic alteration is an amino acid exchange.

14. (Original) The method according to Claim 13, wherein by said amino acid exchange a threonine molecule is changed for a serine molecule (ClCKb<sup>T481S</sup>).

15. (Original) The method according to Claim 12, wherein said determination in step (b) is performed via ion current measurements, preferably via chloride ion current measurements, across a biological cell membrane.

16. (Original) The method according to Claim 15, wherein said ion current measurements are performed via patch clamp and/or voltage clamp technology.

17. (Original) The method according to Claim 15, wherein in step (b) it is determined whether said test substance inhibits ion current across said biological cell membrane.

### 18.-26. Cancelled